

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/36478

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 F01N3/28 B01D53/94

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 F01N B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | <p>PATENT ABSTRACTS OF JAPAN vol. 1999, no. 01, 29 January 1999 (1999-01-29) -& JP 10 288032 A (MITSUBISHI CHEM CORP), 27 October 1998 (1998-10-27) abstract -& DATABASE WPI Week 199902 Derwent Publications Ltd., London, GB; AN 1999-018671 XP002276900 & JP 10 288032 A abstract</p> <p>-----</p> <p>-/-</p> | 1-15 |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
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| Date of the actual completion of the International search | Date of mailing of the International search report |
| 14 April 2004 | 27/04/2004 |
| Name and mailing address of the ISA | Authorized officer |
| European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Gruber, M |

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
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| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| P, X | WO 03/050397 A (SANE AJIT Y ;SOUNDWICH INC (US); MOORE DAN T III (US)) 19 June 2003 (2003-06-19) page 6, paragraph 29 page 8, paragraph 32; figure 2 ---- | 1-15 |
| A | PATENT ABSTRACTS OF JAPAN vol. 010, no. 033 (M-452), 8 February 1986 (1986-02-08) & JP 60 187712 A (NISSAN JIDOSHA KK), 25 September 1985 (1985-09-25) abstract ---- | 1-15 |
| A | US 5 094 074 A (NISHIZAWA KIMIYOSHI ET AL) 10 March 1992 (1992-03-10) column 7, line 10-13; figure 8 ---- | 1-15 |
| A | US 6 224 835 B1 (LANGER ROGER L) 1 May 2001 (2001-05-01) the whole document ----- | |

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Information on patent family members

International Application No

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| Patent document cited in search report | | Publication date | Patent family member(s) | | Publication date |
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